(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



. I HORDE BENJEMEN IN BIJEKU BERKER HAN EN TIT BENJA HORDE TOTAL HERD BAND BENJA BENJA HORDE HORD HAN FREI FR

(43) International Publication Date 25 September 2003 (25.09.2003)

PCT

(10) International Publication Number WO 03/078160 A1

- (51) International Patent Classification⁷: B32B 17/10, C08J 5/18, C08L 29/14, C08K 5/00, B64C 1/14, B29C 47/00
- (21) International Application Number: PCT/US03/07353
- (22) International Filing Date: 11 March 2003 (11.03.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/363,908

12 March 2002 (12.03.2002) U

- (71) Applicant (for all designated States except US): E.I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): WONG, Bert, C. [US/US]; 212 Hawkes Court, Hockessin, DE 19707 (US). RYMER, Donald, L. [US/US]; 4233 School House Road, Little Hocking, OH 45742 (US). READ, Nolan, K., III [US/US]; 2 Chadwick Square, Vienna, WV 26105 (US).
- (74) Agent: DOBSON, Kevin, S.; E.I. DUPONT DE NEMOURS AND COMPANY, LEGAL PATENT RECORDS CENTER, 4417 Lancaster Pike, WILMINGTON, DE 19805 (US).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

/078160

(54) Title: LOW-COLOR STIFF PVB LAMINATES FOR USE IN AIRCRAFT WINDSCREENS

(57) Abstract: The present invention describes laminate articles comprising a stiff, low-color PVB resin having a YID of less than 12 and having a low concentration of plasticizer in the resin composition, wherein the resin is prepared from a composition that includes a PVB bleaching compound. The laminate articles of the present invention have high curvature. A laminate of the present invention can be particularly useful for aircraft windscreen applications.